```
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2
    // © LonesomeTheBlue
3
    //@version=4
4
    study("Cumulative Delta Volume", "CDV")
5
    linestyle = input(defval = 'Candle', title = "Style", options = ['Candle', 'Line'])
6
    hacandle = input(defval = true, title = "Heikin Ashi Candles?")
7
     showma1 = input(defval = false, title = "SMA 1", inline = "ma1")
8
    mallen = input(defval = 50, title = "", minval = 1, inline = "mal")
    ma1col = input(defval = color.lime, title = "", inline = "ma1")
10
     showma2 = input(defval = false, title = "SMA 2", inline = "ma2")
11
    ma2len = input(defval = 200, title = "", minval = 1, inline = "ma2")
12
    ma2col = input(defval = color.red, title = "", inline = "ma2")
13
    showema1 = input(defval = false, title = "EMA 1", inline = "ema1")
14
    emallen = input(defval = 50, title = "", minval = 1, inline = "emal")
15
     ema1col = input(defval = color.lime, title = "", inline = "ema1")
16
     showema2 = input(defval = false, title = "EMA 2", inline = "ema2")
17
    ema2len = input(defval = 200, title = "", minval = 1, inline = "ema2")
18
    ema2col = input(defval = color.red, title = "", inline = "ema2")
19
    colorup = input(defval = color.lime, title = "Body", inline = "bcol")
20
    colordown = input(defval = color.red, title = "", inline = "bcol")
21
    bcolup = input(defval = #74e05e, title = "Border", inline = "bocol")
22
    bcoldown = input(defval = #ffad7d, title = "", inline = "bocol")
23
    wcolup = input(defval = #b5b5b8, title = "Wicks", inline = "wcol")
24
    wcoldown = input(defval = #b5b5b8, title = "", inline = "wcol")
25
26
    tw = high - max(open, close)
27
    bw = min(open, close) - low
28
    body = abs(close - open)
29
30
31
    _rate(cond) =>
        ret = 0.5 * (tw + bw + (cond ? 2 * body : 0)) / (tw + bw + body)
32
        ret := nz(ret) == 0 ? 0.5 : ret
33
34
        ret
35
    deltaup = volume * _rate(open <= close)</pre>
36
    deltadown = volume * _rate(open > close)
37
    delta = close >= open ? deltaup : -deltadown
38
    cumdelta = cum(delta)
39
40
    float ctl = na
    float o = na
41
    float h = na
42
43
    float 1 = na
    float c = na
44
45
    if linestyle == 'Candle'
        o := cumdelta[1]
46
        h := max(cumdelta, cumdelta[1])
47
        1 := min(cumdelta, cumdelta[1])
48
        c := cumdelta
49
        ctl
50
    else
51
52
        ctl := cumdelta
E2
```

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```
plot(ctl, title = "CDV Line", color = color.blue, linewidth = 2)
float haclose = na
float haopen = na
float hahigh = na
float halow = na
haclose := (o + h + 1 + c) / 4
haopen := na(haopen[1]) ? (o + c) / 2 : (haopen[1] + haclose[1]) / 2
hahigh := max(h, max(haopen, haclose))
halow := min(l, min(haopen, haclose))
c_ = hacandle ? haclose : c
o_ = hacandle ? haopen : o
h_ = hacandle ? hahigh : h
l_{-} = hacandle ? halow : 1
plotcandle(o_, h_, l_, c_, title='CDV Candles', color = o_ <= c_ ? colorup : colordown, bordercolor =</pre>
plot(showma1 and linestyle == "Candle" ? sma(c_, ma1len) : na, title = "SMA 1", color = ma1col)
plot(showma2 \ and \ linestyle == "Candle" \ ? \ sma(c_, \ ma2len) : na, title = "SMA 2", color = ma2col)
plot(showema1 and linestyle == "Candle" ? ema(c_, ema1len) : na, title = "EMA 1", color = ema1col)
plot(showema2 and linestyle == "Candle" ? ema(c_, ema2len) : na, title = "EMA 2", color = ema2col)
```

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